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Ramon C. Mendoza  
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USEPA Region 5  
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Chicago, IL 60604-3507

Subject:  
Former Plainwell Impoundment and Plainwell No. 2 Dam Area 2012 Bank Conditions  
Monitoring Report - Addendum 2

Dear Mr. Mendoza:

The following describes the additional bank maintenance performed by Terra Contracting on the south bank of the Western channel of the former Plainwell Impoundment on February 14, 2013. The area was identified in section 3 (e) of the US EPA memorandum dated December 7, 2012 that documented the December 3, 2012 site inspection. Bank maintenance in area 3 (e) was not completed in December 2012 at the same time the work was completed in the other areas of the former Plainwell Impoundment due to an oversight.

The bank maintenance consisted of placing additional armor rock near the water line in three areas over a combined 120 feet of river bank. The three areas as identified on the attached Figure 3 consisted of:

1. Area described in section 3 (e) - ~30 feet in length, where armor rock was placed about 2 feet thick starting below the water line and extending up the bank about 8 feet.
2. An area about 40 feet upstream - ~15 feet in length, where armor rock was placed about 1 foot thick starting below the water line and extending up the bank about 5 to 6 feet.
3. An area about 20 feet downstream - ~15 feet in length, where armor rock was placed about 1.5 feet thick starting below the water line and extending up the bank about 5 to 6 feet.

Existing armor rock located at the highest portion of the bank was used for the maintenance work. Photos of the three maintenance areas are also attached.

The above work completes the identified bank maintenance for the former Plainwell Impoundment. As we discussed on February 21<sup>st</sup>, we are planning to conduct the final inspection of the former Plainwell impoundment as required under the AOC between March 27<sup>th</sup> and 29<sup>th</sup>.

Sincerely;

A handwritten signature in black ink, appearing to read "Garry Griffith". The signature is fluid and cursive, with the first name "Garry" being more prominent than the last name "Griffith".

Garry Griffith, PE

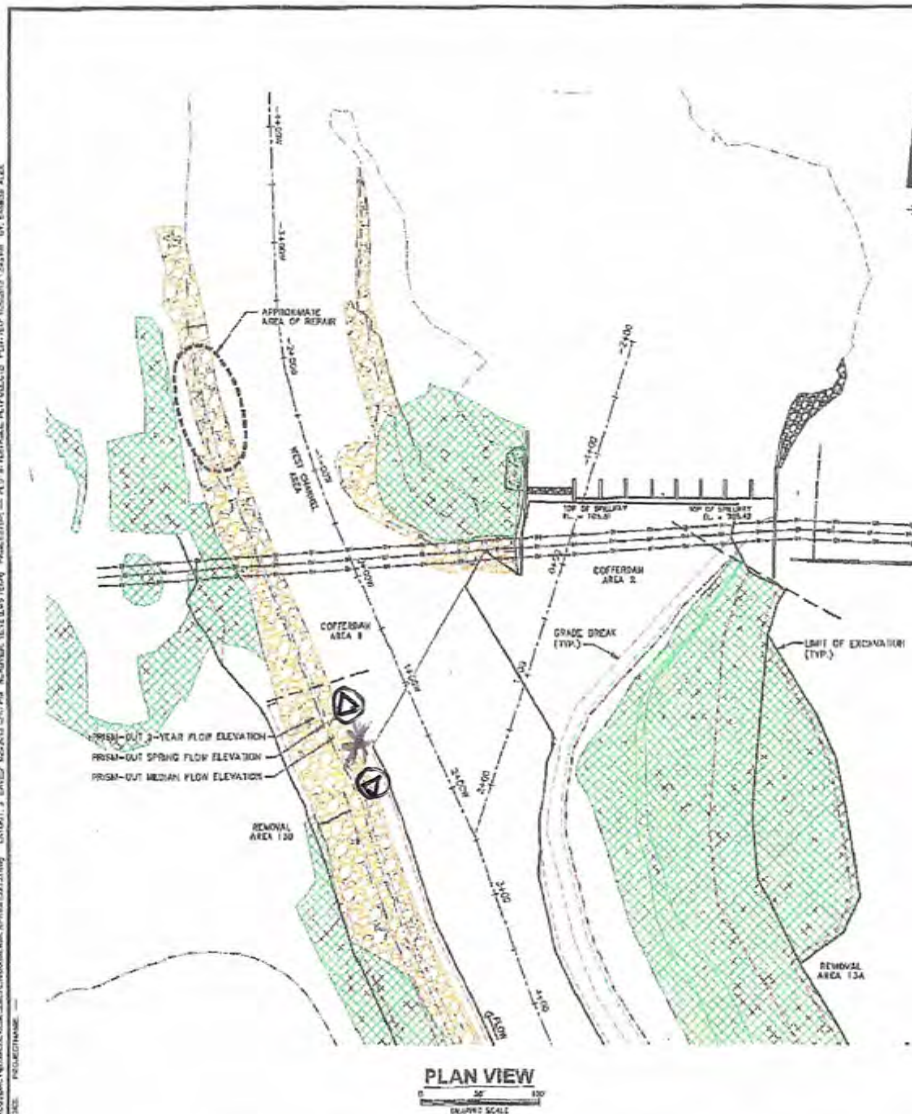
Enclosures:

1 Hard Copy

Copies:

Judith Alfano, MDEQ (electronic copy)  
Samuel Borries, USEPA (electronic copy)  
Paul Bucholtz, MDEQ (electronic copy)  
Todd Goeks, NOAA (electronic copy)  
Chase Fortenberry, Georgia-Pacific, LLC (electronic copy)  
Sharon Hanshue, MDNR (electronic copy)  
Mark Mills, MDNR (electronic copy)  
Lisa Williams, USFWS (electronic copy)  
Julie Sims, NOAA (electronic copy)  
Jessica Winter, NOAA (electronic copy)  
Michael Erickson, ARCADIS

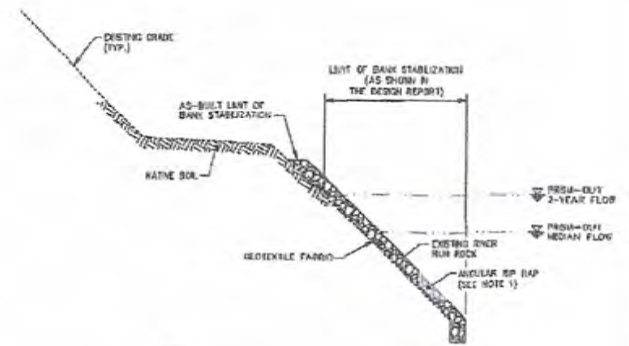
CITY OF KALAMAZOO, KALAMAZOO COUNTY, MICHIGAN  
 PROJECT: KALAMAZOO RIVER CHANNEL MAINTENANCE  
 DRAWING: BANK MAINTENANCE PLAN VIEW AND CROSS-SECTION  
 DATE: 10/2013  
 PREPARED BY: ARCADIS  
 CHECKED BY: [blank]  
 DESIGNED BY: [blank]  
 PROJECT NO.: [blank]



- LEGEND:
- 1+000 STATION POINT (IN HUNDREDS OF FEET)
  - KALAMAZOO RIVER CENTERLINE AND STATION LINE
  - PRE-CONSTRUCTION WATER LINE
  - APPROX. LIMIT OF REMOVAL AREA
  - EXISTING VEGETATION
  - EXISTING RIVER RUN ROCK

BASEMAP NOTES:

- BASEMAP TOPOGRAPHY WITHIN "APPROXIMATE LIMIT OF FIELD SURVEY" IS BASED ON FIELD SURVEY POINT DATA OBTAINED BY BSL IN SEPTEMBER 2003, AND FROM A HERNO IN JULY, AUGUST, AND SEPTEMBER 2003. VERTICAL DATUM FOR ALL FIELD SURVEYS AND DEMONSTRATIONS IS NGVD 29. LIMITS OF INDIVIDUAL FIELD SURVEYS ARE NOT SHOWN FOR CLARITY. SOME INTERPOLATED DATA EXIST BETWEEN INDIVIDUAL FIELD SURVEYS. BASEMAP TOPOGRAPHY OUTSIDE "APPROXIMATE LIMIT OF FIELD SURVEY" IS BASED ON CONTIGUOUS INFORMATION OBTAINED FROM THE ALLEGAN COUNTY GIS DATABASE, DATED APRIL 2004. VERTICAL DATUM FOR ALL GIS BASEMAP TOPOGRAPHY IS NAVD 83. COMPARISON BETWEEN VERTICAL DATUMS WITHIN VICINITY OF PROJECT SITE IS AS FOLLOWS: (NGVD 29) + 0.64 FT = (NAVD 83). ALL ELEVATIONS SHOWN ARE IN FEET. HORIZONTAL DATUM FOR ALL SURVEY INFORMATION (I.E. FIELD AND AERIAL) IS STATE PLANE, SAD 83, MICHIGAN SOUTH ZONE (SAD), INTERNATIONAL FEET.
- FLOW LIMITS SHOWN ON THIS DRAWING ARE BASED ON MODELING AS DESCRIBED IN SECTION 2.7 OF THE DESIGN REPORT. ACTUAL FLOW LIMITS VARY THROUGHOUT BANK ACTIVITIES.



TYPICAL BANK SECTION

(NOT TO SCALE)  
 (2X VERTICAL EXAGGERATION)

DESIGN/PROJECT NO.: KALAMAZOO RIVER CHANNEL MAINTENANCE APPENDIX 1 TO THE FORMER PLAINWELL IMPROVEMENT AND PLAINWELL NO. 2 DAM AREA 2012 BANK CONDITION MONITORING REPORT: BANK MAINTENANCE COMPLETE MONITORING FOR PLAINWELL IMPROVEMENT WESTERN CHANNEL, PLAINWELL AREA 4A AND 4B, AND PLAINWELL NO. 2 DAM REMOVAL AREA 2A	
<b>FORMER PLAINWELL IMPROVEMENT          WESTERN CHANNEL          BANK MAINTENANCE PLAN VIEW          AND CROSS-SECTION</b>	
	FIGURE <b>3</b>

Ⓐ upstream and downstream limits on Feb. 14, 2013 bank maint.

\* approximate location. Comment 3(Ⓐ), adjacent to downstream end of prism.

# Former Plainwell Impoundment TCRA

Documentation of Bank Maintenance  
Work Completed along the South Bank  
of the Western Channel (Item 3. e. in  
the US EPA Memorandum dated  
December 7, 2012) Completed on  
February 14, 2013



# Area 3 (e) prior to bank maintenance





# Area 3 (e) after bank maintenance





# Area upstream of area 3 (e) prior to bank maintenance





# Area upstream of area 3 (e) after bank maintenance





# Area downstream of area 3 (e) after bank maintenance

